CONSTRUCTION PLAN FOR

GENERAL NOTES

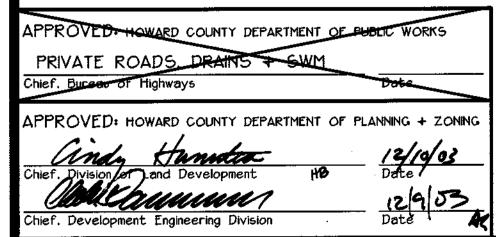
- THE PROJECT IS IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS WAIVERS HAVE BEEN APPROVED.
- PROJECT BACKGROUND: LOCATION: GORMAN ROAD . STEPHENS ROAD TAX MAP: 36-18, 37-13 ZONING: R-ED ELECTION DISTRICT: 6 GROSS AREA OF TRACT: 5.68 ACRES
- SEE DEPARTMENT OF PLANNING + ZONING FILE NUMBERS: 5 00-13, WP 01-60, PB 345, F 01-117, P 01-15, F 01-204,5 02-20 + P 03-15.
- 4. THE TOPOGRAPHY SHOWN HAS A 2' CONTOUR INTERVAL AND WAS DETERMINED BY + AIERL PHOTOGRAPHY BY DAFT, McCUNE + WALKER, SUMMER 1998.
- PUBLIC WATER AND SEWER TO BE UTILIZED (CONTRACT NO. 24-4183-D). SITE IS IN METROPOLITAN DISTRICT.
- HORIZONTAL AND VERTICAL CONTROL BASED ON HOWARD COUNTY CONTROL STATIONS 47 EA + E4.
- INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM BEST AVAILABLE RECORDS. THE CONTRACTOR MUST DETERMINE THIS EXACT LOCATION AND ELEVATION OF THE MAINS BY DIGGING TEST PITS BY HAND AT ALL CROSSINGS WELL IN ADVANCE OF CONSTRUCTION, ANY DISCREPANCIES MUST BE COMMUNICATED TO THE ENGINEER AT ONCE.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY AND MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS / DIVISION OF CONSTRUCTION INSPECTION AT 1 (410) 313 - 1880 AT LEAST FIVE (5) DAYS PRIOR TO THE START OF WORK.
- 10. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THE PLANS.

1-800-446-5266

HOWARD COUNTY BUREAU OF UTILITIES AT+T CABLE LOCATION DIVISION

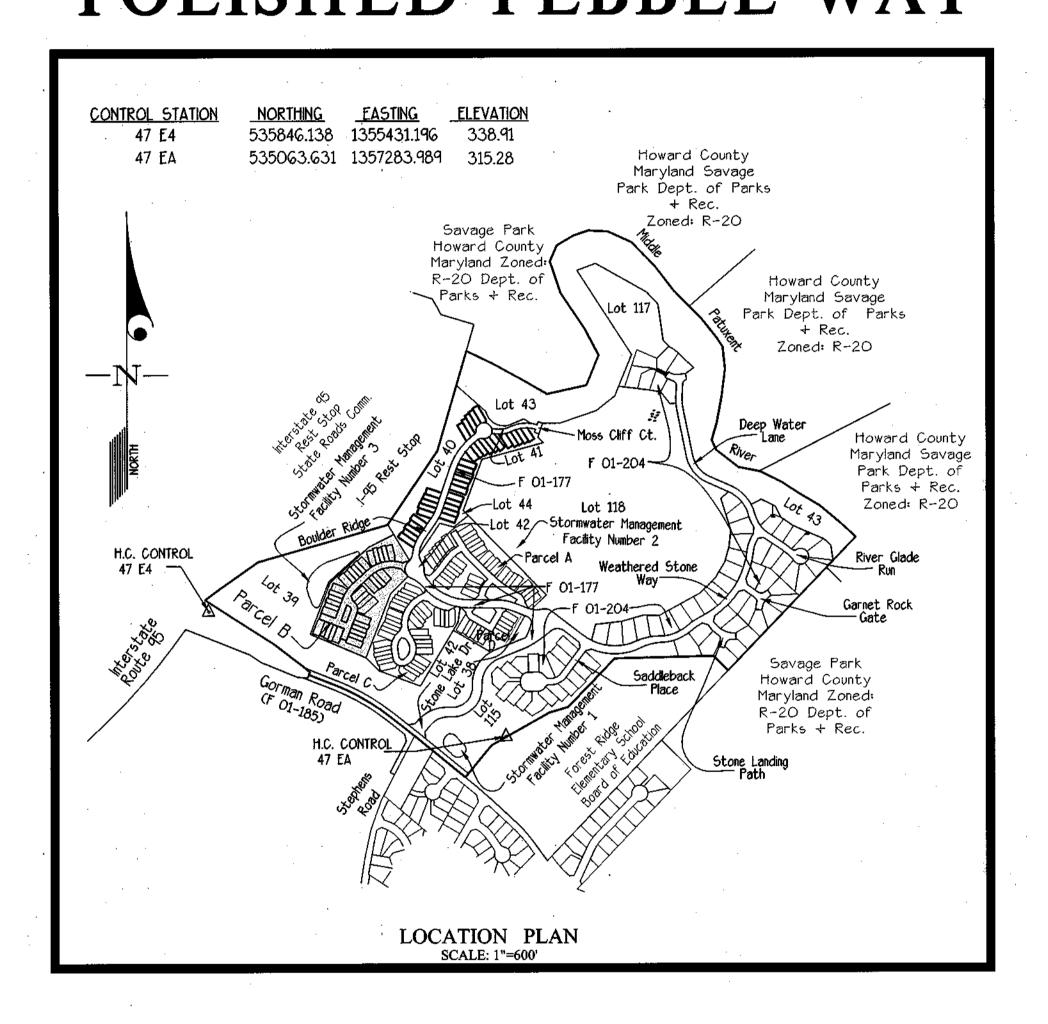
BALTIMORE GAS + ELECTRIC CO. 410-850-4620 + 410-787-9068

- TYPES OF STORM DRAINS REFER TO THE STANDARD DETAILS OF HOWARD COUNTY
- TRENCH COMPACTION FOR STORM DRAINS WITHIN ROADS AND STREET RIGHT - OF - WAYS LIMITS SHALL BE IN ACCORDANCE WITH "HOWARD COUNTY
- 13. SEDIMENT CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH ' 1994 MARYLAND STANDARDS AND SPECIFICATION FOR SOILS EROSION AND SEDIMENT CONTROL'.
- 14. TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 15. STREET TREES SHALL BE PLANTED A MINIMUM OF FIVE (5) FEET FROM STORM DRAIN. WATERLINE OR SEWER PIPE MANHOLES; ALSO A MINIMUM OF TWENTY (20) FEET FROM STREET LIGHTS.
- 16. COMPACTION IN FILL AREAS SHALL BE IN ACCORDANCE WITH AASHTO T-180 OR AS APPROVED IN THE DESIGN MANUAL VOLUME IV.
- 17. WETLAND STREAM, STEEP SLOPE, AND FOREST COVER DELINEATION BY DAFT, McCUNE AND WALKER.
- 18. TRAFFIC STUDY WAS APPROVED AS PART OF THE SKETCH PLAN ON OCTOBER 10, 2000.
- 19. ALL ROADS IN THIS DEVELOPMENT ARE PRIVATE.
- 20. STREET TREE LOCATIONS SHOWN ARE TENTATIVE AND ARE TO BE USED FOR BOND PURPOSES ONLY. THE FINAL LOCATION AND VARIETY OF TREES MAY VARY TO ACCOMMODATE FIELD CONDITIONS AND BUILDERS LANDSCAPE PROGRAM.
- 21. PARKING LOT INTERNAL LANDSCAPING FOR THIS PROJECT HAS BEEN PREPARED ACCORDING TO THE ALTERNATIVE COMPLIANCE PORTION OF THE LANDSCAPE MANUAL (CHAPTER VD.
- 22. NOISE STUDY WAS APPROVED AS PART OF THE SKETCH PLAN OCTOBER 10, 2000.
- 23. ON JANUARY 16, 2001, WP 01-60, WAIVER OF SECTION 16.120 c (2) WAS GRANTED WHICH REQUIRES ALL LOTS TO HAVE FRONTAGE ON A PUBLIC ROAD, AND SECTION 16.120 c (4) WHICH LIMITS THE LENGTH OF A PRIVATE ROAD FOR SEA UNITS TO 200, SUBJECT TO ONE CONDITION IN THE APPROVAL LETTER.
- 24. LANDSCAPE SCHEDULE A, PERIMETER LANDSCAPE EDGE, FOR LOTS B-17. B-22. B-32 + B-36 AND THE SCHEDULE C. RESIDENTIAL DEVELOPMENT INTERNAL LANDSCAPING WILL BE SUBMITTED AND APPROVED UNDER THE SITE DEVELOPMENT PLANS.





FOR STONE LAKE LOTS B-1 thru B-39 POLISHED PEBBLE WAY

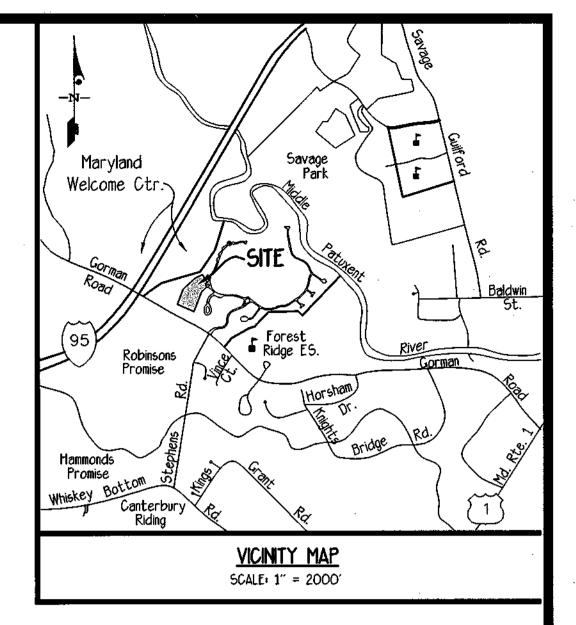


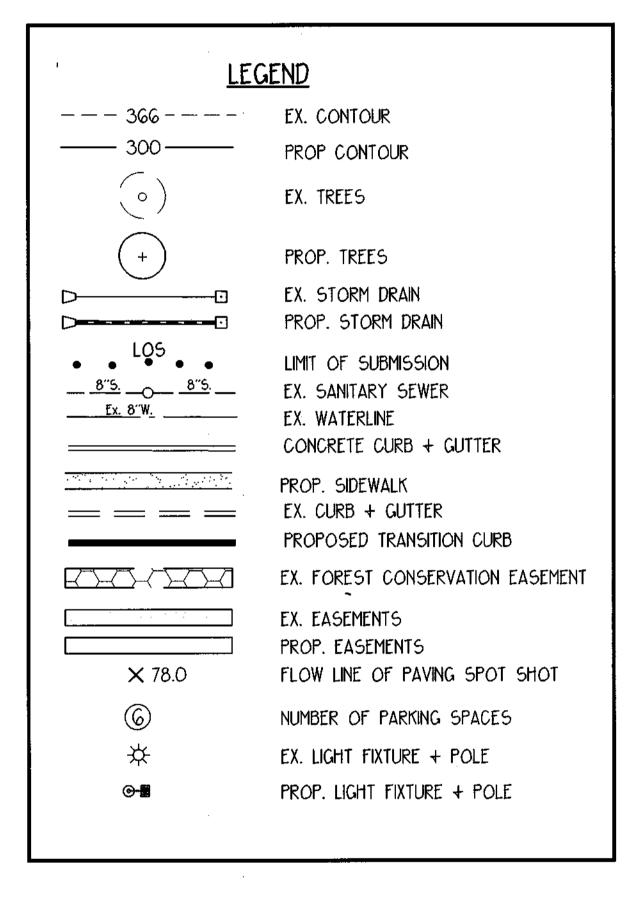
PRELIMIARY PARKING TABULATION Total Parking Required: 36 units x 2 spaces/unit = 72 Spaces

Parking Provided: Garages: 72 Spaces (2 ea. SFA) Driveways: 36 Spaces (1 ea. SFA) Surface: Spaces: 21 Spaces Total: 129 Spaces

OVERFLOW/GUEST PARKING REQUIREMENTS (PER DESIGN MANUAL VOLUME III. 2.8.2)

OVERFLOW/GUEST PARKING REQUIRED = 36 UNITS X 0.5 SPACES PER UNIT = 18 SPACES OVERFLOW/GUEST PARKING PROVIDED = 129 SPACES - 72 REQUIRED SPACES = 57 OVERFLOW/GUEST PARKING SPACES

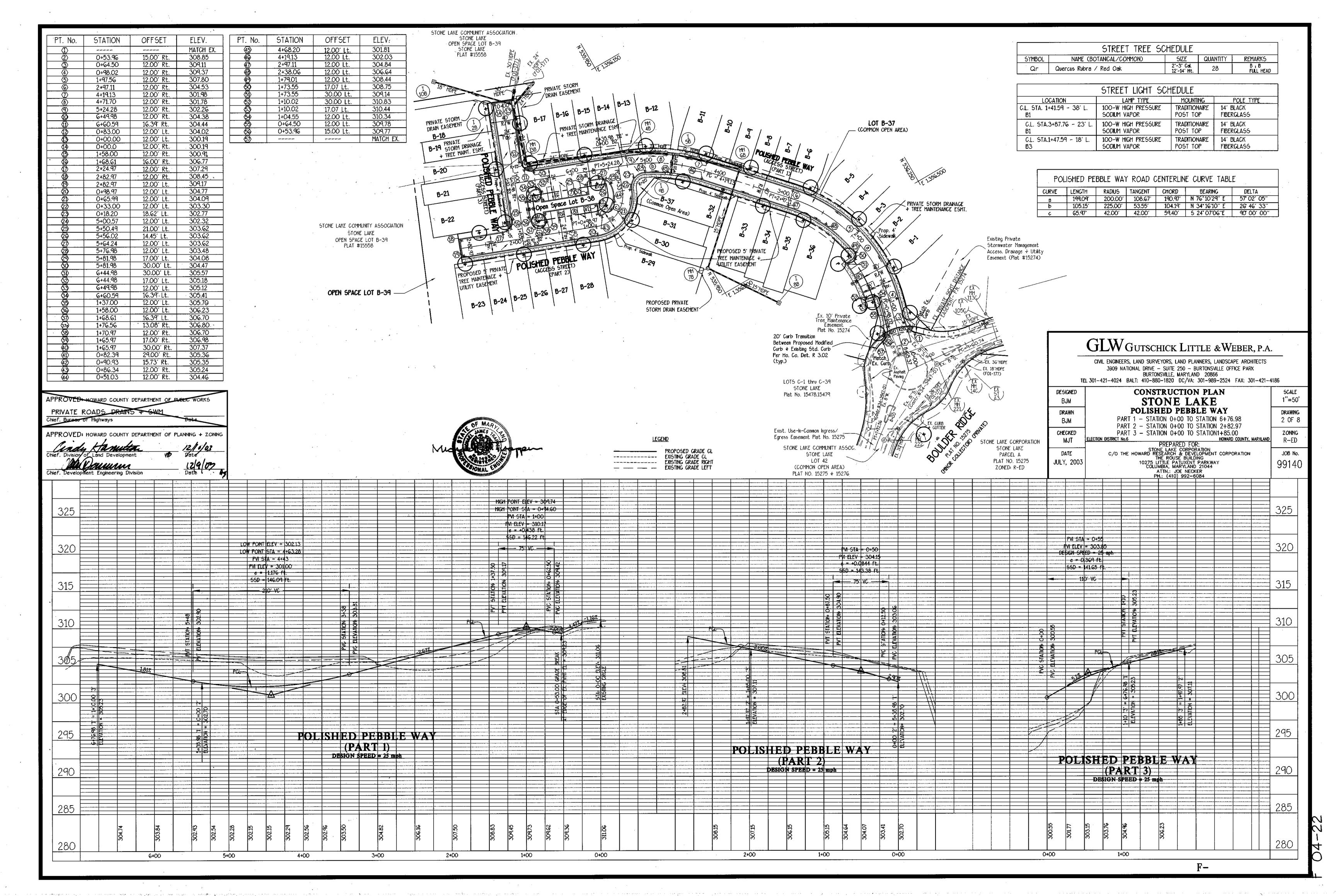




SHEET INDEX

- 1. COVER SHEET
- 2. POLISHED PEBBLE WAY-ROAD PLAN + PROFILES.
- 3. SITE + LANDSCAPE DETAILS.
- 4. GRADING PLAN.
- 5. STORM DRAIN PROFILES.
- 6. STORM DRAIN DRAINAGE AREA MAP.
- 7. SEDIMENT AND EROSION CONTROL PLAN.
- 8. SEDIMENT AND EROSION CONTROL DETAILS.

Chief. Development Engineering Division Date									
GLWGUTSCHICK LITTLE & WEBER, P.A.				OWNER & PREPARED FOR :	COVER SHEET		SCALE	ZONING	G. L. W. FILE No.
	¢			STONE LAKE CORPORATION C/O THE HOWARD RESEARCH & DEVELOPMENT CORP.	STONE LAKE		AS SHOWN	R-ED	99140
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK				THE ROUSE BUILDING	LOTS B-1 thru B-39		7.0 0.10 111	\	
BURTONSVILLE, MARYLAND 20866				10275 LITTLE PATUXENT PARKWAY		·	DATE	TAX MAP — GRID	SHEET
TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186				COLUMBIA, MARYLAND 21044 ATTN.: JOE NECKER	A RESUBDIVISION OF PARCEL 'B'		NOV 2003	47 – 7.	1 00 0
L:\CADD\DRAWNGS\99140\ParcelB\ROAD-PLANS\99140PB-RP1.dwg DES, BJM DRN.BJM CHK.	MJT DATE	REVISION	BY APP'R.	TELE.: (410) 992-6084	ELECTION DISTRICT No. 6	HOWARD COUNTY, MARYLAND	NOV., 2003	P/O PARCEL 837	1 OF 8



PLANT MATERIALS AND PLANTING METHODS

A. <u>Plant Materials</u>

The landscape contractor shall furnish and install and/or dig. ball, burlap and transplant all of the plant materials called for on drawings and/or listed in the Plant Schedule.

1. Plant Names

Plant names used in the Plant Schedule shall conform with 'Standardized Plant Names.' latest edition.

2. Plant Standards

All plant material shall be equal to or better than the requirements of the USA Standard for Nursery Stock* latest edition, as published by the American Association of Nurserymen Chereafter referred to as AAN Standards). All plants shall be typical of their species and variety, shall have a normal habit of growth and shall be first quality, sound, vigorous. well-branched and with healthy, well-furnished root systems. They shall be free of disease. insect pests and mechanical injuries.

All plants shall be nursery grown and shall have been grown under the same climate conditions as the location of this project for at least two years before planting. Neither heeled-in plants nor plants from cold storage will be accepted.

3. Plant Measurements

All plants shall conform to the measurements specified in the Plant Schedule as approved by

- the ARC. a. Caliper measurements shall be taken six inches (6°) above grade for trees under four-inch (4') caliper and twelve (12') above grade for trees four inches (4°) in caliper and over.
- b. Minimum branching height for all shade trees shall be six feet (6'). maximum eight feet (8°).
- c. Caliper, height, spread and size of ball shall be generally as follows:

CALIPER	HEIGHT	SPREAD	SIZE OF BALL
3' - 3.5'	14'-16'	6'-8'	32° diameter °
3.5'- 4'	14'-16'	8'-10'	36° diameter
4" - 4.5"	16'-18'	8'-10'	40° diameter
4.5'- 5"	16'-17'.	-10'-12'	44° diameter
5" - 5.5"	16'-20'	10'-12'	48' diameter
5.5'- 6'	18'-20'	12'-14'	52° diameter

All plant material shall generally average the median for the size ranges indicated above as indicated in the 'AAN Standards.

4. Plant Identification

Legible labels shall be attached to all shade trees, minor trees, specimen shrubs and bundles or boxes of other plant material giving the botanical and common names, size and quantity of each. Each shipment of plants shall bear certificates of inspection as required by Federal. State and County authorities.

5. Plant Inspection

The ARC may, upon request by the builder or developer, at least ten (10) days prior to the installation of any proposed plant material.
inspect all proposed plant material at the source of origin.

<u>Planting Methods</u>

All proposed plant materials that meet the specifications in Section A are to be planted in accordance with the following methods during the proper planting seasons as described in the following:

1. Planting Seasons

The planting of deciduous trees, shrubs and vines shall be from March 1st to June 15th and from September 15th to December 15th. Planting of deciduous material may be continued during the winter months providing there is no frost in the ground and frost-free topsoil planting mixtures are used.

The planting of evergreen material shall be from March 15th to June 15th and from August 15th to December 1st. No planting shall be done when ground is frozen or excessively moist. No frozen or wet topsoil shall be used

3. Excavation of Plant Pits

The landscaping contractor shall excavate all plant pits, vine pits, hedge trenches and shrub beds in accordance with the following

- a. Locations of all proposed plant material shall be staked and approved in the field by the landscape architect before any of the proposed plant material is installed by the landscape contractor.
- b. All pits shall be generally circular in outline, vertical sides, depth shall not be less than 6' deeper than the root ball, diameter shall not be less than two times the diameter of the root ball as set forth in the following schedule.
- c. If areas are designated as shrub beds or hedge trenches, they shall be excavated to at least 18' depth minimum. Areas designated for ground covers and vines shall be excavated to at least 12' in depth minimum.
- Diameter and depth of tree pits. shall generally be as follows:

PLANT SIZE	ROOT BALL	DIAMETER	DEP.
3* - 3.5*cal.	32*	64*	28 ⁻
3.5'- 4' cal.	36°	72*	32*
4" - 4.5"cal.	40°	801	36*
4.5'- 5' cal.	44*	88*	40*
5" - 5.5"cal.	48*	96.	44*
5.5*- 6* cal.	52*	104"	48*

A 20% compaction figure of the soil to be removed is assumed and will be allowed in calculation of extra topsoil. The tabulated pit sizes are for purposes of uniform calculation and shall not override the specified depths below the bottoms of the root balls.

- 4. Staking, Guying and Wrapping
- All plant material shall be staked or guyed, and wrapped in accordance with the following specifications:
 - a. Stakes: Shall be sound wood 2" x 2" rough sawn oak or similar durable woods, or lengths, minimum 7'-0' for major trees and 5'-0' minimum for minor trees.
 - b. Wire and Cable: Wire shall be #10 ga. galvanized or bethanized annealed steel wire. For trees over 3° caliper, provide 5/16° turn buckles, eye and eye with 4° takeup. For trees over 5' caliper. provide 3/16°. 7 strand cable cadmium plated steel, with galvanized 'eye' thimbles of wire and hose on trees up to 3' in
 - Hose: Shall be new. 2 ply reinforced rubber hose, minimum 1/2" I.D. 'Plastic Lock Ties' or "Paul's Trees Braces' may be used in place of wire and hose on trees up to 3° in caliper.
 - d. All trees under 3' in caliper are to be planted and staked in accordance with the attached 'Typical Tree Staking Detail'.

Plant Pruning. Edging and Mulching

- Each tree, shrub or vine shall be pruned in an appropriate manner to its particular requirements. in accordance with accepted standard practice. Broken or bruised branches shall be removed with clean cuts flush with the adjacent trunk or branches. All cuts over 1' in diameter shall be painted with an approved antiseptic tree wound dressing.
- All trenches and shrub beds shall be edged and cultivated to the lines shown on the drawing. The areas around isolated plants shall be edged and cultivated to the full diameter of the pit. Sod which has been removed and stacked shall be used to trim the edges of all excavated areas to the neat lines of the plant pit saucers, the edges of shrub areas, hedge trenches and vine pockets.
- After cultivation, all plant materials shall be mulched with a 2° layer of fine, shredded pine bark, peat moss. or another approved material over the entire area of the

6. Plant Inspection and Acceptance

The ARC shall be responsible for inspecting all planting projects on a periodic basis to assure that all work is proceeding in accordance with the approved plans and specifications.

7. Plant Guarantee

All plant material shall be guaranteed for the duration of one full growing season, after final inspection and acceptance of the work in the planting project. Plants shall be alive and in satisfactory growing condition at the end of the guarantee period.

- a. For this purpose, the 'growing season' shall be that period between the end of the 'Spring' planting season, and the commencement of the 'Fall' planting
- b. Guarantee for planting performed after the specified end of the 'Spring' planting season, shall be extended through the end of the next following 'Spring' planting season.

All sodding shall be in accordance to the Landscape Specification Guidelines for Baltimore-Washington metropolitan Areas' latest edition, approved by the Landscape Contractors Association of Metropolitan Washington and the American Society of Landscape

All sod shall be strongly rooted sod. not less than two years old and free of weeds and undesirable native grasses. Provide only sod capable of growth development when planted and in strips not more than 18' wide x 4' long. Provide sod composed principally of improved strain Kentucky bluegrass, such as. Columbia, Victa, or

LANDSCAPING NOTES

- 1. This plan has been prepared in accordance with the New Town Alternative Compliance provisions of Section 16.124 of the Howard County Code and the Howard County Landscape Manual.
- 2. Contractor shall notify all utilities at least (5) five days before starting work. All General Notes, especially those regarding utilities. on Sheet 1 shall apply.
- 3. Field verify underground utility locations and existing conditions before starting planting work. Contact engineer / landscape architect if any relocation's are required.
- 4. Plant quantities shown on Plant List are provided for the convenience of the contractor only. If discrepancies exist between quantities shown on the plan and those shown on the plant list, the quantities on the plan shall take precedence.
- 5. All plant material shall be full, heavy, well formed, and symmetrical, and conform to the A.A.N. Specifications, and be installed in accordance with project specifications.
- 6. No substitution shall be made without written consent of the owner or his representative.
- 7. All areas disturbed by construction activities but not otherwise planted paved, or mulched shall be seeded or sodded in accordance with the project specifications.
- 8. The contractor shall notify the owner in writing if he/she encounters soil drainage conditions which may be detrimental to the growth of the
- All exposed earth within limits of planting beds shall be mulched with shredded hardwood mulch per Planting Details.
- 10. Financial surety for the required landscaping per schedule A and B shall be posted with the Developer's Agreement in the amount of \$600.00.
- 11. The owner, tenant, and /or their agents shall be responsible for maintenance of the required landscaping, including both plant materials and berms, fences and walls. All plant materials shall be maintained in good growing condition and when necessary, replaced with new materials to ensure continued compliance with applicable regulations. All other required landscaping shall be permanently maintained in good condition, and when necessary, repaired or replaced.

	SCHEDULE B PARKING LOT INTERNAL LANDSCAPING
	Number of Parking Spaces = 21 Spaces (Provided)
	Number of Trees Required = 2 Trees • 1 per 10 spaces
7,	Number of Trees Provided Shade Trees: 2 Other Trees: O (2:1 substitution)
	Schedule 'A' Number of required Shade Trees for bonding: 2 x \$300 = \$600.00

PLA	INT LIST			
SYMBOL SHRUBS	QUAN.	BOTANCAL NAME COMMON NAME	9/ZE	
P	2	QUERCUS PALUSTRIS PN OAK	2 1/2" - 3" Cal B+B 7" min. branching ht	

DO NOT CUT CENTRAL LEADER, REMOVE ANY DEAD OR DAMAGED BRANCHES BY APPROPRIATE PRUNING METHODS. 3/8" DIA. REINFORCED BLACK - Rubber Hose, interlocked. POSITION ABOVE 1ST SET OF BRANCHES 2"x2"x8" MIN. HARDWOOD STAKES -2 STRANDS 12-GA GALV. " APPROVED -wire twisted ARDWOOD MULCH____ SET ROOT BALL AT OR -SLIGHTLY ABOVE FINISH GRADE. CUT BURLAP & WIRE BASKETS FINISH GRADE-FROM TOP 1/3 OF ROOT BALL REMOVE ALL SYNTHETIC WRAPS TOPSOIL -& TWINES ENTIRELY BACKFILL WITH PREPARED SOIL MIX-1/3 TOPSOIL, 1/3 EXISTING SOIL, 1/3 ORGANIC AMENDMENT. UNDISTURBED SOIL PERIMETER OF PLANTING PIT.

DECIDUOUS TREE PLANTING DETAIL

FOR PLANTING MATERIAL UP TO 3 1/2" CALIPER

MIS

DEVELOPER'S / BUILDER'S CERTIFICATE 1/We certify that the landscaping shown on this plan will be done according to the plan. Section 16.124

of the Howard County Code and the Howard County Landscape manual. I/We further certify that upon completion a letter indicating that the landscaping has been installed in accordance with the above and will also request an inspection of the landscaping. This letter will be accompanied by an executed one-year guarantee of the installed plant materials. The letter and guarantee will be submitted to the Department of Planning and Zoning. Land Development Division.

Financial surety for the required landscaping will be posted with the Developer's Agreement in the amount of



40' right of way

Cross-Section

(STA: 1+80.00 TO 4+83.00 PART 1)

NOT TO SCALE

sidewalk

4' conc.

sidewalk

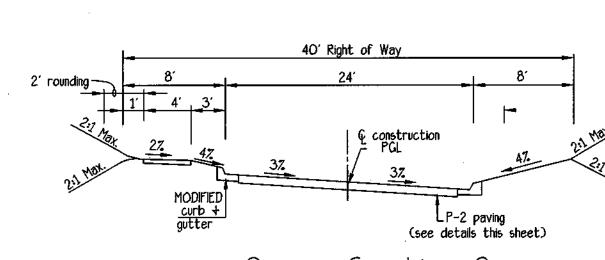
P-2 Full Depth Bituminous Concrete Alternate

1 1/2" Bit Conc. Surface

5" Bit Conc.

Paving Sections

NOTE: OTHER EQUIVALENT PAVING SECTIONS MAY BE USED WHERE APPROVED BY A GEOTECHNICAL.



Cross-Section 2 (STA: 0+00 TO 0+66.00 PART 3)

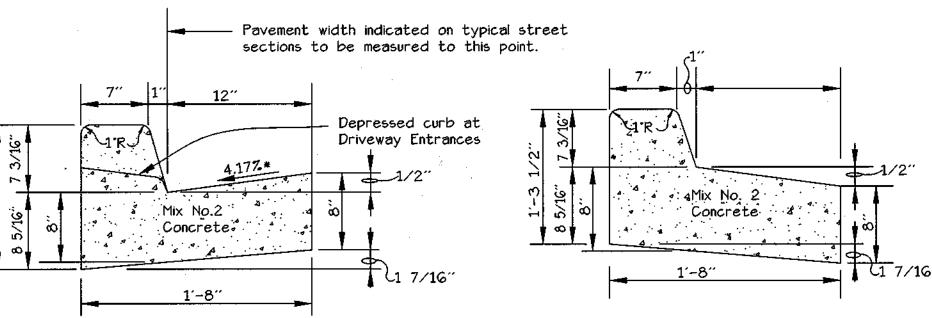
NOT TO SCALE

construction — MODIFIED curb + 4' conc. P-2 paving P-2 paving (see details this sheet) (see details this sheet)

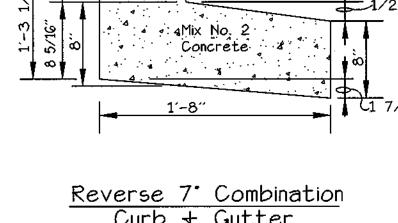
> Cross-Section 3 (STA: 5+84.00 TO 6+38.00 PART 1) NOT TO SCALE

TYPICAL ROAD SECTIONS - ACCESS STREET (PRIVATE)

NOTE: ALL SIDEWALKS THAT ARE IMMEDIATELY ADJACEN TO CURBS SHALL BE 5-FOOT WIDE.



Standard 7' Combination Curb + Gutter



Curb + Gutter N.T.S.

1 1/2" Bit Conc.

2 1/2" Bit Conc.

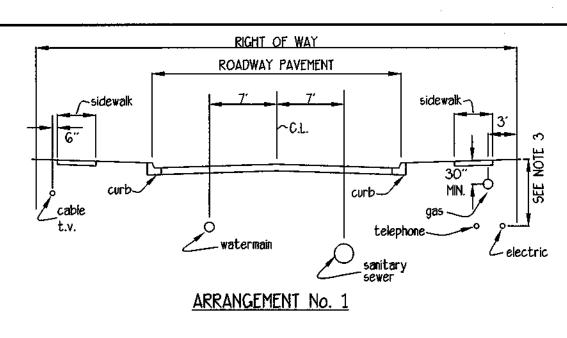
Surface

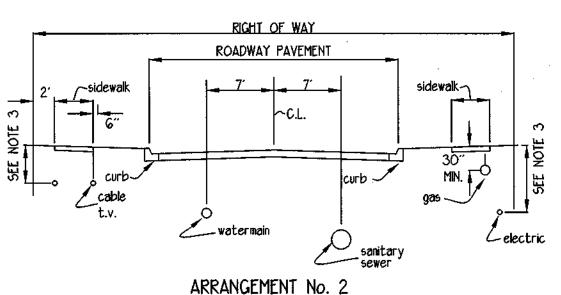
6" Graded Agregate Base (GAB)

P-2

Granular Base

POLISHED PEBBLE WAY ROAD CLASSIFICATION DESIGN SPEED PART 1 - 0+00 TO 6+76.98 ACCESS STREET PART 2 - 0+00 TO 2+82.97 ACCESS STREET PART 3 - 0+00 TO 1+85.00 ACCESS STREET



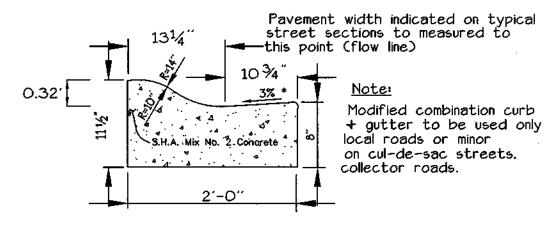


NOTES:

- 1. THE DEPARTMENT OF PUBLIC WORKS SHALL BE CONSULTED CONCERNING THE UTILITY LOCATIONARRANGEMENT FOR A GIVEN STREET PROJECT.
- 2. GAS, ELECTRIC AND TELEPHONE LINES MAY BE PLACED IN THE SAME TRENCH AT THE OPTION OF THE BALTIMORE, GAS. AND ELECTRIC CO. AND BELL ATLANTIC.
- 3. ELECTRIC: O-GOOV 24" COVER, OVER GOOV 36" COVER. TELEPHONE: MAIN SERVICE 24" COVER. RESIDENTIAL CONNECTION: 11" COVER CABLE T.V.: 11" COVER

NORMAL LOCATIONS OF PUBLIC UTILITIES CLOSED SECTION

Ho. Co. Maryland Dept. of Public Works Volume 111, Roads + Bridges Figure 2.15



* Gutter pan at the median edge of intermediate arterials or the high side of superelevated sections shall be sloped at the same rate and in the same direction as the pavement. Match pavement cross slope when curb is located on the low side of superelevated section and the rate of superelevation is greater than 3% for modified curb and gutter.

Modified Combination Curb and Gutter

SCALE AS SHOWN TAX MAP - GRID SHEET

PRIVATE ROADS DRAINS T SWM APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING + ZONING Development Engineering Division GLWGUTSCHICK LITTLE & WEBER, P.A.

CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS

3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK

BURTONSVILLE, MARYLAND 20866 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

L:\CADD\DRAWINGS\99140\ParcelB\ROAD-PLANS\99140-Parcel-RP3.dwg DES. BJM DRN. BJM CHK. MJT DATE

WARD COUNTY DEPARTMENT

REVISION BY APP'R.

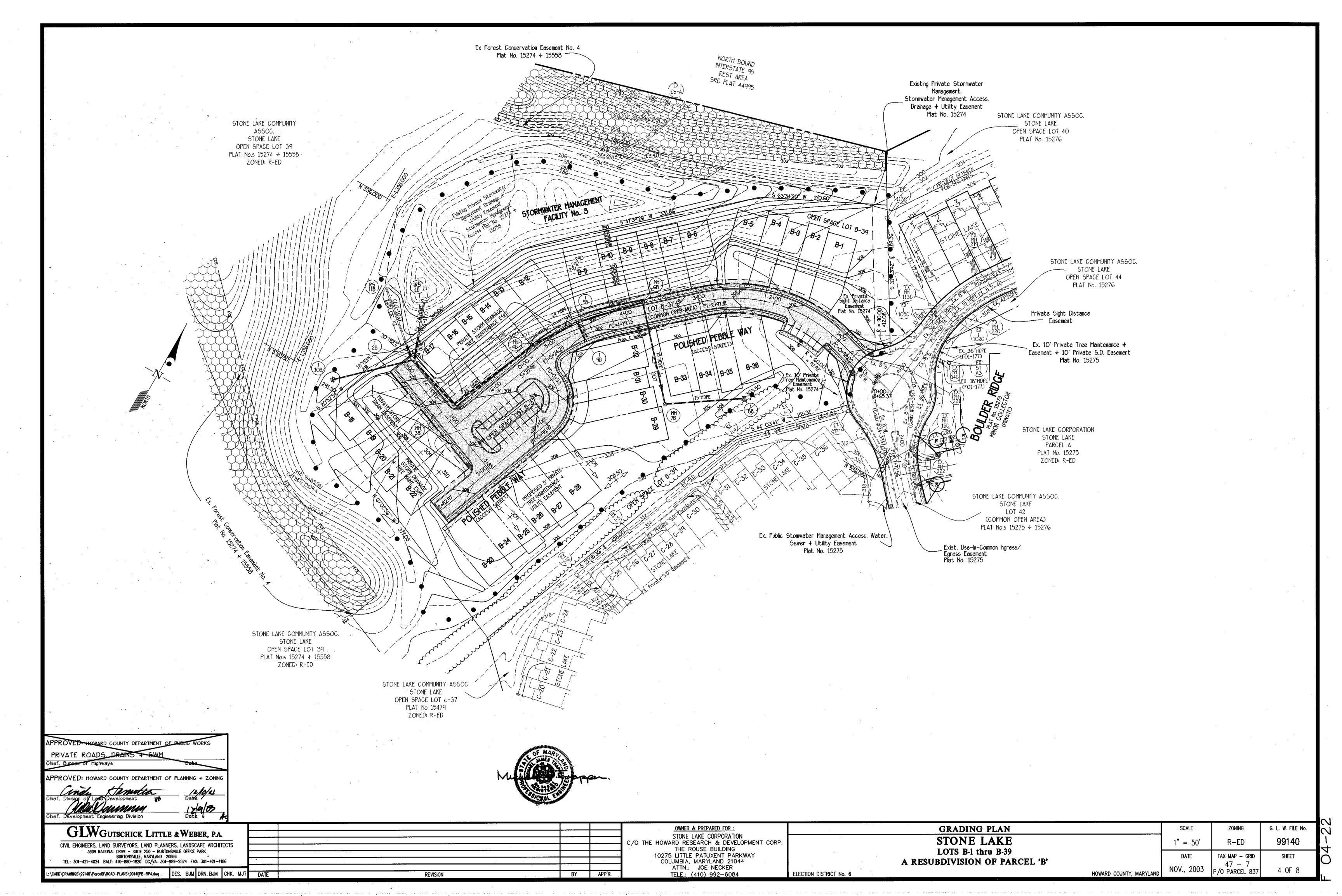
OWNER & PREPARED FOR: STONE LAKE CORPORATION C/O THE HOWARD RESEARCH & DEVELOPMENT CORP. THE ROUSE BUILDING 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044 ATTN.: JOE NECKER

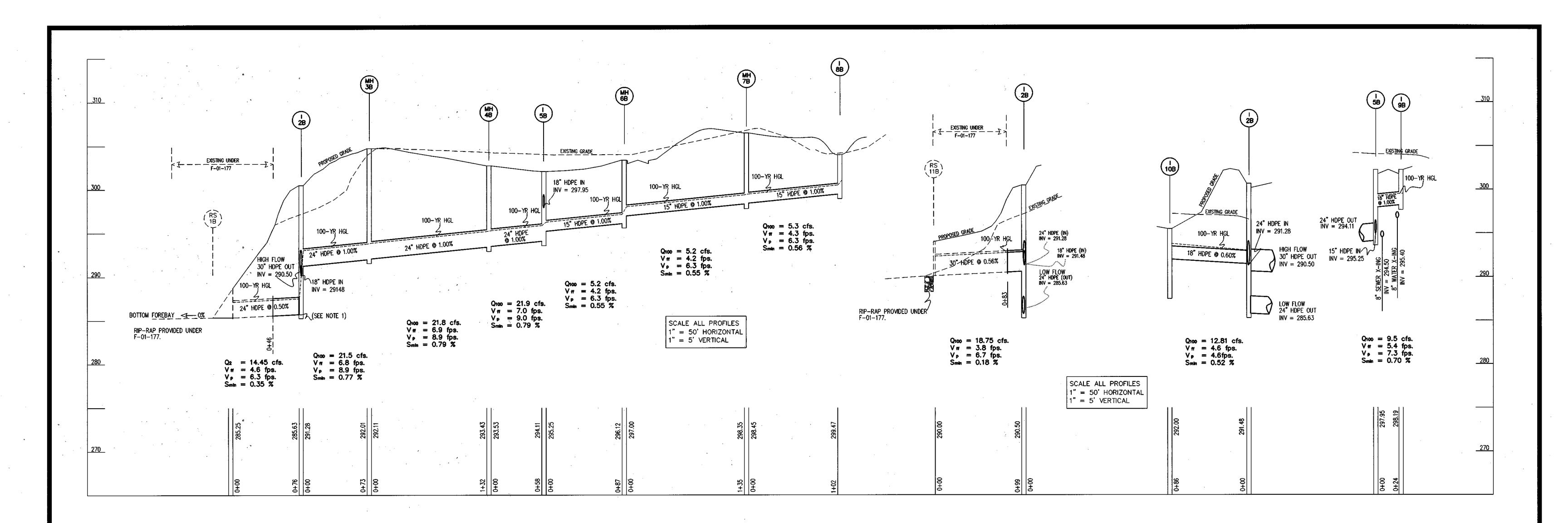
TELE.: (410) 992-6084

LOTS B-1 thru B-39 ELECTION DISTRICT No. 6

SITE AND LANSCAPE DETAILS STONE LAKE A RESUBDIVISION OF PARCEL 'B'

G. L. W. FILE No. 99140 NOV., 2003 P/O PARCEL 837 HOWARD COUNTY, MARYLAND





IOTES:

1. 24: PIPE LENGTH FROM RS-1B TO I-2B
IS TO PENETRATE FACE OF STRUCTURE
AND BE CAPPED WITH A 24" HDPE ENDCAP.
CAP TO HAVE A 16" HOLE CUT INTO IT.
INVERT OF 16" ORIFICE = 285.63

24" HDPE ENDCAP

		WIDTH	top el	EVATION	invert e	LEVATION		
NO.	TYPE	(INSIDE)	UPPER	LOWER	UPPER	LOWER	STANDARD DETAIL	LOCATIONS & REMARKS
I-2B	A 10 Inlet	3'-6"	300.69	300.69	291.48	285.63	HO.CO. SD 4.41	0+00 12R PART 3
MH-3B	4 ft. Diameter Manhole	4'-0"	· -	304.90	292.11	292.01	HO. CO. G-5.12	0+92.00 16:4R PART 3
MH-4B	4 ft. Diameter Manhole	4'-0"		302.90	293.53	293.43	HO. CO. G-5.12	4+73.98 18R PART 1
I-5B	COS 15 Inlet	4'-0"	302.63	302.63	297.95	294.11	MD-SHA 374.62	0+97.98 127.10L PART 2
MH-6B	4 ft. Diameter Manhole	4'-0"		303.86	297.00	295.87	HO. CO. G-5.12	0+97.98 127.10L PART 2
MH-7B	4 ft. Diameter Manhole	4"-0"		306.50	298.45	298.35	HO. CO. G-5.12	5+22.02 18R PART 1
I-8B	Type D Inlet	2'-7"	303.50	303.50	terminal	299.47	HO. CO. SD-4.39	4+63.27 12R PART 1
I-9B	COS 15 Inlet	4'-0"	302.63	302.63	terminal	298.19	MD SHA 374.62	4+63.27 12R PART 1
I-10B	Type D Precast Inlet	2'-7"	295.50	295.50	terminal	292.00	HO. CO. SD-4.39	6+79.89 201.98L PART 2

NOTE: ALL STRUCTURES TO BE PRECAST.

Pipe Summary Table					
Size (in)	Type (-)	Quantity (LF)	Remarks (-)		
15	HDPE	323	ADS N12 or equiv.		
18	HDPE	111	ADS N12 or equiv.		
24	HDPE	309	ADS N12 or equiv.		
30	HDPE	16	ADS N12 or equiv.		

APPROVED HOWARD COUNTY DEPARTMENT	NT OF PUBLIC WORKS
PRIVATE ROADS, DRAINS + SV	VM
Chief. Bureau of Highways	Dote
APPROVED: HOWARD COUNTY DEPARTMENT	
Chief. Division of Land Development	12/10/as
Millimun	124/02
Chief. Development Engineering Division	Date

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Chief. Development Engineering Division Date V	· · · · · · · · · · · · · · · · · · ·	
GLWGUTSCHICK LITTLE &WEBER, P.A.		
OLW GUTSCHICK LITTLE & WEBER, P.A.		
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS		·C/
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK Burtonsville, Maryland 20866		
TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186		
L:\CADD\DRAWNGS\99140\ParcelB\ROAD-PLANS\99140P8-RP5.dwg DES. BJM DRN. BJM CHK. MJ	TE REVISIO	BY APP'R.

OWNER & PREPARED FOR:

STONE LAKE CORPORATION

C/O THE HOWARD RESEARCH & DEVELOPMENT CORP.

THE ROUSE BUILDING

10275 LITTLE PATUXENT PARKWAY

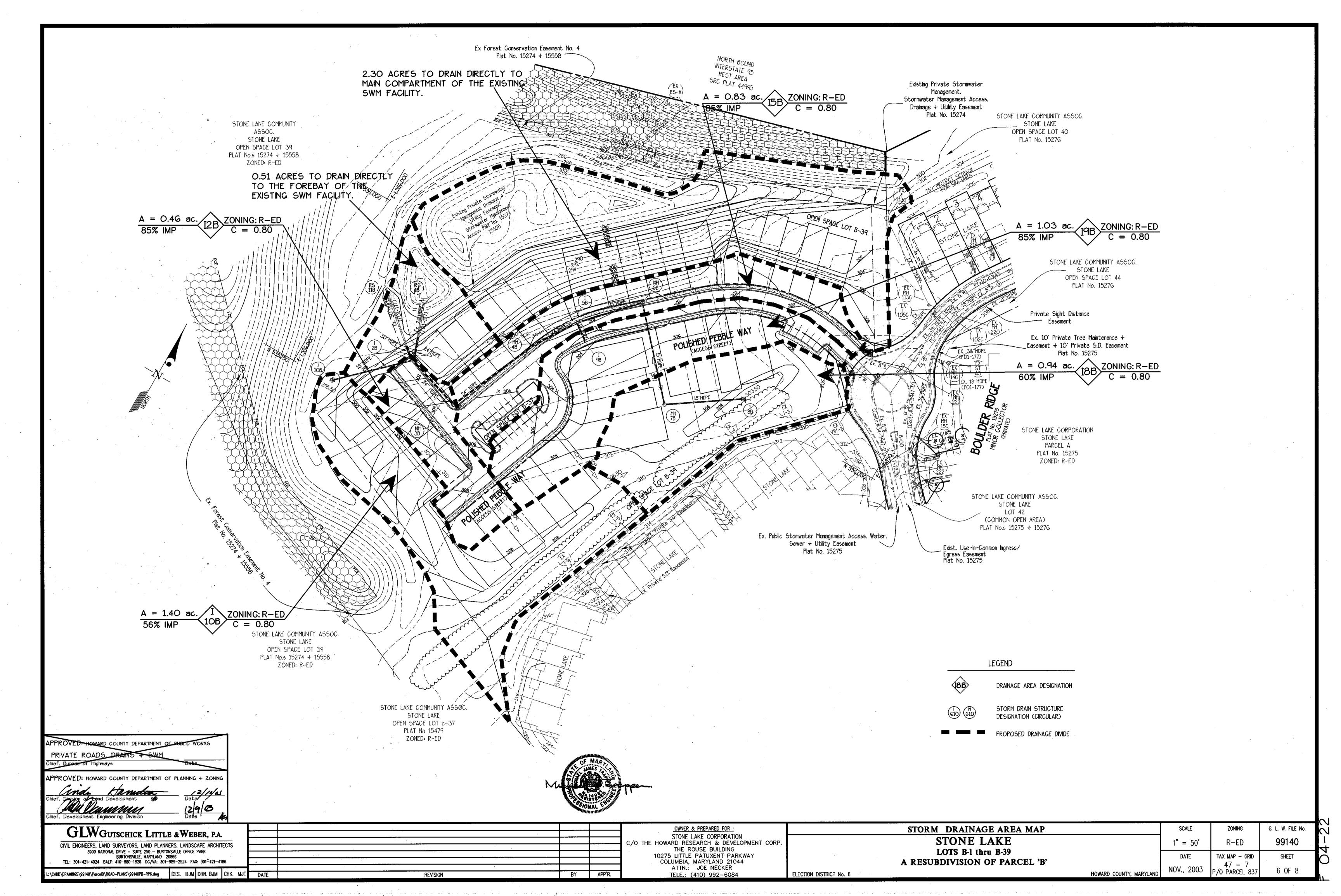
COLUMBIA, MARYLAND 21044

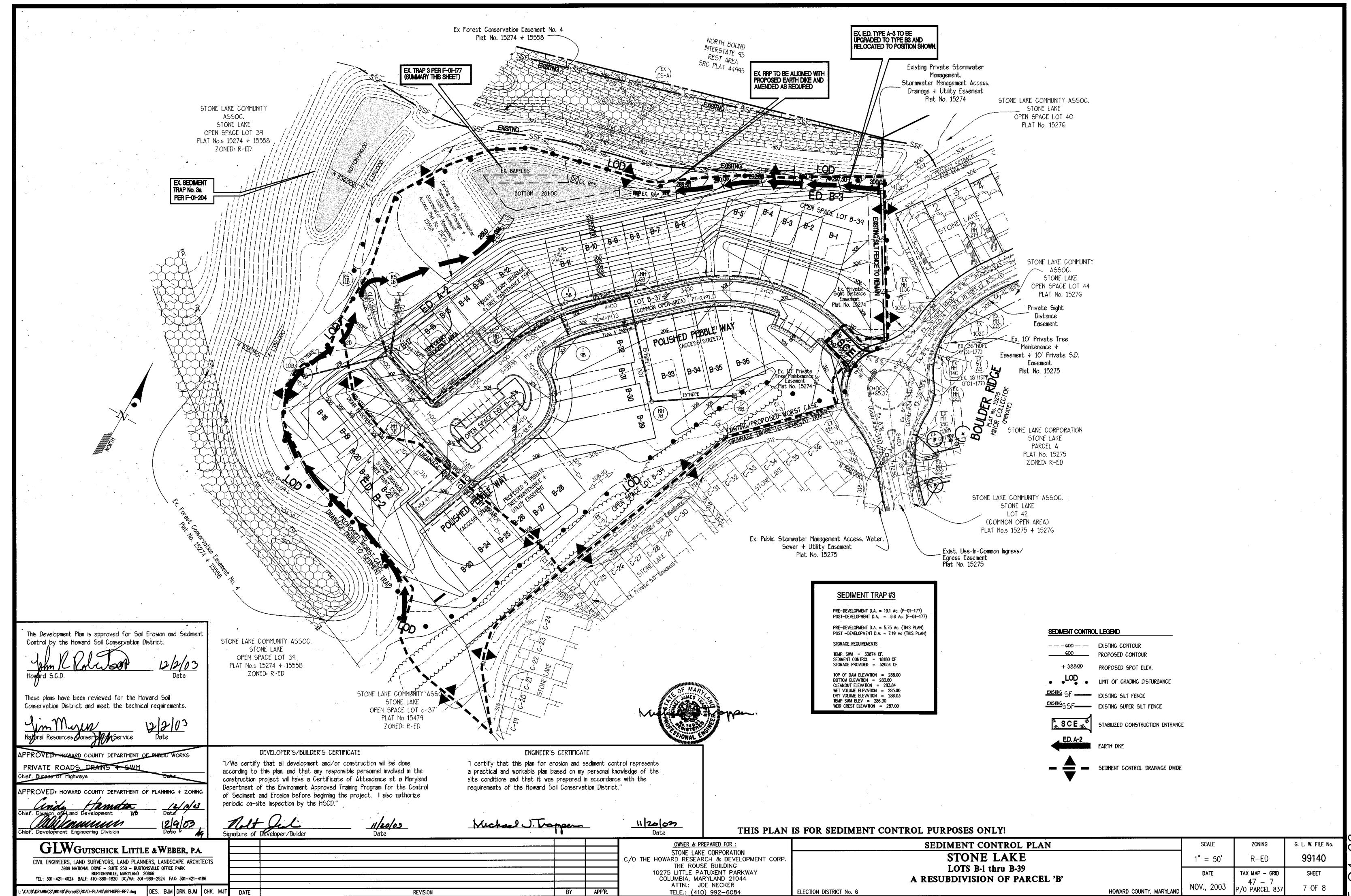
ATTN.: JOE NECKER

TELE.: (410) 992-6084

ELECTION DISTRICT No. 6

	·			
STORM DRAIN PROFILES		SCALE	ZONING	G. L. W. FILE No.
STONE LAKE		AS SHOWN	R-ED	99140
LOTS B-1 thru B-39 A RESUBDIVISION OF PARCEL 'B'		DATE	TAX MAP - GRID	SHEET
A RESUBDIVISION OF PARCEL B	HOWARD COUNTY, MARYLAND	NOV., 2003	47 — 7 P/O PARCEL 837	5 OF 8





SEDIMENT CONTROL NOTES

1. A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION.

. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOL EROSION AND SEDMENT CONTROL AND REVISIONS THERETO.

3. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN AD 7 CALENDAR DAYS FOR ALL PERMETER SEDIMENT CONTROL STRUCTURES, DIKES AND PERMETER SLOPES AND ALL SLOPES GREATER THAN 3:1. B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

4. ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12. OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.

5. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS, SOD. TEMPORARY SEEDINGS AND MULCHING (SEC. G). TEMPORARY STABILIZATION, WITH MULCH ALONE, CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.

6. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION LINTL PERMISSION FOR THEIR REMOVAL HAS BEEN .. OBTAINED FROM THE HOWARD COUNTY SEDMENT CONTROL INSPECTOR.

SITE ANALYSIS: TOTAL AREA OF SITE AREA DISTURBED

5.68 ACRES 4.79 ACRES AREA TO BE ROOFED OR PAVED 1.30 ACRES AREA TO BE VEGETATIVELY STABILIZED 1 3.49 ACRES 9700 CU, YDS. TOTAL FEL 9700 CU, YDS.

OFF-SITE WASTE/BORROW AREA LOCATION

8. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.

9. ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DPW SEDMENT CONTROL INSPECTOR.

10. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES. APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERMETER EROSION AND SEDIMENT CONTROLS. BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.

11. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO 3 PIPE LENGTHS OR THAT WHICH SHALL BE BACKFILLED AND STABILIZED WITHIN 1 WORKING DAY. WHICHEVER IS SHORTER...

NOTE: TOTAL CUT AND FILL QUANTITIES ARE FOR PLAN PURPOSES ONLY, CONTRACTOR IS RESPONSIBLE FOR DETERMINING EARTHWORK AT TIME OF CONTRACT

ENGINEER'S CERTIFICATE

1 CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

Michael J. Trapper 11/20/00

BUILDER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTORIZE PERIODIC ON-SITE INSPECTION BY THE HSCD."

HIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL

CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS.

HOWARD COUNTY DEPARTMENT OF B

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING + ZONING

GLWGUTSCHICK LITTLE & WEBER, P.A.

BURTONSVILLE, MARYLAND 20866 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186 :\CADD\DRAWINGS\99140\ParcelB\ROAD-PLANS\99140PB-RP8.dwg DES. BJM DRN. BJM CHK. MJT DATE

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREA NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED. SEEDBED PREPARATION LOOSEN UPPER THREE INCHES OF SOIL BY RAKING.

DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING (UNLESS PREVIOUSLY SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE

FOLLOWING SCHEDULES

1) PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQUARE FEET) AND GOO LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ FT) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS PER ACRE 30-0-0 UREA-FORM FERTILIZER (9 LBS/1000 SQ FT).

2) ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ FT) AND 1000 LBS PER ACRE OF 10-10-10 FERTILIZER (23 LBS/1000 SQ FT) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING: FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15. SEED WITH GO LBS PER ACRE (1.4 LBS/1000 SQ FT) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH GO LBS KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (.05 LB5/1000 SQ FT) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28. PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, "OPTION (2) USE SOD. OPTION (3) SEED WITH GO LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ FT) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING, ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ FT) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 5Q FT) FOR ANCHORING.

MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS. REPLACEMENTS AND RESEEDINGS.

TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING (UNLESS PREVIOUSLY

SOIL AMENDMENTS: APPLY GOO LBS PER ACRE 10-10-10 FERTILIZER (14 LB5/1000 5Q FT).

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU OCTOBER 15. SEED WITH 2-1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS./1000 SQ.FT.). FOR THE PERIOD MAY 1 THRU AUGUST 14. SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS C.O7 LBS/1000 SQ FT). FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ FT) OF UNROTTED, WEED-FREE, SMALL GRAIN STRAW IMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL PER ACRE (5 GAL/1000 SQ FT) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES, 8 FT OR HIGHER USE 348 GAL PER ACRE (8 GAL/1000 SQ FT) FOR ANCHORING.

REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDMENT CONTROL FOR RATE AND METHODS NOT COVERED.

STANDARD AND SPECIFICATIONS FOR TOPSOIL

PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION.

TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.

CONDITIONS WHERE PRACTICE APPLIES

I. THIS PRACTICE IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPE WHERE:

A. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE

B. THE SOL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIED OF MOISTURE AND PLANT NUTRIENTS.

C. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.

D. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.

. For the purpose of these standards and specifications, areas having slopes steeper than 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN FOR ADEQUATE STABILIZATION. AREAS HAVING SLOPES STEEPER than 2:1 shall have the appropriate stabilization shown on the plans.

CONSTRUCTION AND MATERIAL SPECIFICATIONS

TOPSOL SALVAGED FROM THE EXISTING SITE MAY BE USED PROVIDED THAT IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE RESPECTIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-SCS IN COOPERATION WITH MARYLAND AGRICULTURAL EXPERIMENTAL STATION.

I. TOPSOIL SPECIFICATIONS - SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:

TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, LOAMY SAND. OTHER SOLS MAY BE USED IF RECOMMENDED BY A AGRONOMIST OR SOLL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. REGARDLESS, TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTING "TEXTURED SUBSOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF CINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1 1/2' N DIAMETER.

B. TOPSOIL MUST BE FREE OF PLANT PARTS SUCH AS BERMUDA GRASS, QUACKGRASS, JOHNSONGRASS. NUTSEDGE POISON BY THISTLE OR OTHERS AS SPECIFIED.

C. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE IF 4-8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL. LIME SHALL BE DISTRIBUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES.

II. FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES!

A. PLACE TOPSOL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABLIZATION - SECTION 1 - VEGETATIVE STABLIZATION METHODS AND MATERIALS (OR SEE SEEDING NOTES).

IV. FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES:

A. ON SOIL MEETING TOPSOIL SPECIFICATIONS, OBTAIN TEST RESULTS DICTATING FERTILIZER AND LIME AMENDMENTS REQUIRED TO BRING THE SOIL INTO COMPLIANCE WITH THE FOLLOWING:

1. PH FOR TOPSOIL SHALL BE BETWEEN 6.0 AND 7.5. IF THE TESTED SOIL DEMONSTRATES A PH OF LESS THAN G.O. SUFFICIENT LIME SHALL BE PRESCRIBED TO RAISE THE PM TO G.5. OR HIGHER.

2. ORGANIC CONTENT OF TOPSOIL SHALL BE NOT LESS THAN 1.5 PERCENT BY WEIGHT.

3. TOPSOIL HAVING SOLUBLE SALT GREATER THAN 500 PARTS PER MILL SHALL NOT BE USED.

4. NO SOD OR SEED SHALL BE PLACED ON SOL WHICH HAS BEEN WITH SOIL STERLANTS OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME HAS ELAPSED (14 DAYS MIN.) TO PERMIT DISSIPATION OF PHOTO-TOXIC MATERIALS.

NOTE: TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF

B. PLACE TOPSOL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 2.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS (OR SEE SEEDING

V. TOPSOIL APPLICATION

REVISION

A. WHEN TOPSOLLING, MAINTAIN NEEDED EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSION. GRADE STABILIZATION STRUCTURES, EARTH DIKES, SLOPE SLT FENCE AND SEDMENT TRAPS AND BASINS. B. GRADES ON THE AREAS TO BE TOPSOLED, WHICH HAVE BEEN PREVIOUSLY ESTABLISHED, SHALL BE MAINTAINED. ALBEIT 4"-8" HIGHER IN ELEVATION.

C. TOPSOR SHALL BE UNFORMLY DISTRIBUTED IN A 4'-8' LAYER AND LIGHTLY COMPACTED TO A MINIMUM thickness of 4". Spreading shall be performed in such a manner that sodding or seeding can PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY PREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILLING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER

D. TOPSOIL SHALL NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS FROZEN OR MUDDY CONDITION. WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE. DETRIMENTAL TO PROPER

VI. ALTERNATIVE FOR PERMANENT SEEDING - INSTEAD OF APPLYING THE FULL AMOUNTS OF LIME AND COMMERCIAL FERTILIZER, COMPOSTED SLUDGE AND AMENDMENTS MAY BE APPLIED AS SPECIFIED BELOW-

A. COMPOSTED SLUDGE MATERIAL FOR USE AS A SOIL CONDITIONER FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES SHALL BE TESTED TO PRESCRIBE AMENDMENTS AND FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES SHALL CONFORM TO THE FOLLOWING REQUIREMENTS: COMPOSTED SLUDGE SHALL BE SUPPLIED BY, OR ORIGINATE FROM, A PERSON OR PERSONS THAT

THE ENVIRONMENT LINDER COMAR 2G 04 0G. COMPOSTED SLUDGE SHALL CONTAIN AT LEAST 1 PERCENT NITROGEN, 1.5 PERCENT PHOSPHORUS. AND 0.2 PERCENT POTASSUM AND HAVE A PH OF 7.0 TO 8.0. IF COMPOST DOES NOT MEET THESE REQUIREMENTS, THE APPROPRIATE CONSTITUENTS MUST BE ADDED TO MEET THE REQUIREMENTS PRIOR

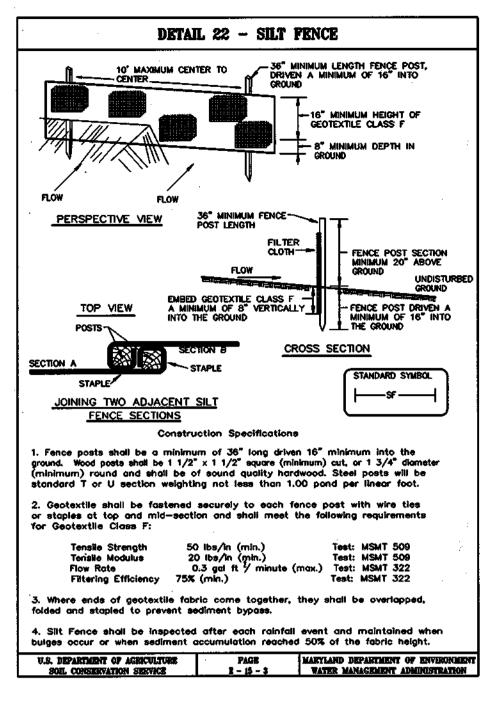
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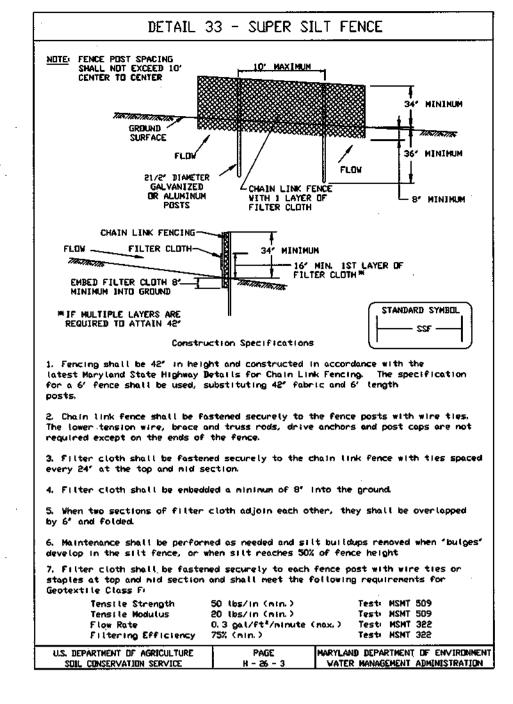
ARE PERMITTED CAT THE TIME OF ACQUISITION OF THE COMPOST) BY THE MARYLAND DEPARTMENT OF

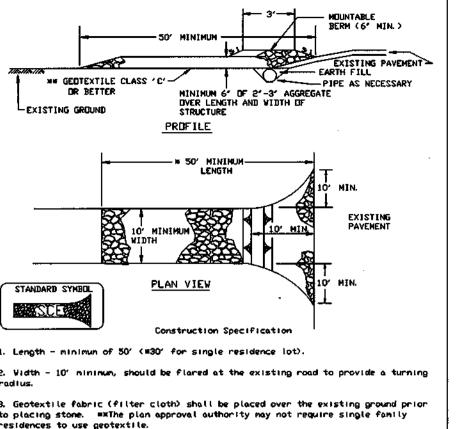
3. COMPOSTED SLUDGE SHALL BE APPLED AT A RATE OF 1 TON/1,000 SQUARE FEET. B. COMPOSTED SLUDGE SHALL BE AMENDED WITH A POTASSUM FERTILIZER APPLIED AT A RATE OF

4LB/1,000 SQUARE FEET, AND 1/3 THE NORMAL LIME APPLICATION RATE.

REFERENCES: GUIDELINE SPECIFICATIONS, SOIL PREPARATION AND SODDING, MD-VA PUB. #1. COOPERATIVE EXTENSION SERVICE, UNIVERSITY OF MARYLAND AND VIRGINIA POLYTECHNIC INSTITUTES. REVISED 1973.







DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE

to placing stone. **The plan approval authority may not require single family

4. Stone - crushed apprepate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6' deep over the length and width of the

5. Surface Water — all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a nountable bern with 5:1 slopes and a minimum of 6° of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized

according to the amount of runoff to be conveyed. A 6' minimum will be required.

6. Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance

PAGE MARYLAND DEPARTMENT OF ENVIRONMENT F - 17 - 3 WATER MANAGEMENT ADMINISTRATION U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

Dust Control

<u>Definition</u> Controlling dust blowing and movement on construction sites and roads

<u>Purpose</u>

To prevent blowing and movement of dust from exposed soil surfaces, reduce on and off-site damage, health hazards, and improve traffic safety.

Conditions Where Practice Applies

This practice is applicable to areas subject to dust blowing and movement where on and

off-site damage is likely without treatment.

1. Mulches - See standards for vegetative stabilization with mulches only, much should be crimped or tacked to prevent blowing.

2. Vegetative Cover - See standards for temporary vegetative cover. 3. Tiltage — To roughen surface and bring clods to the surface. This is an emergency measure which should be used before soil blowing starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12" apart, spring-toothed harrows, and similar plows are examples of equipment

4. Irrigation - This is generally done as an emergency treatment. Site is sprinkled with water until the surface is moist. Repeat as needed At no time should the site be irrigated to the point

5. Barriers - Solid board fences, silt fences, snow fences, straw bales, and similar material can be used to control air currents and soil blowing. Barriers placed at right angle to prevailing

currents at intervals at about ten times their height are effective in controlling soil blowing 6. Calcium Chloride - Apply at rates that will keep surface maist. May need treatment.

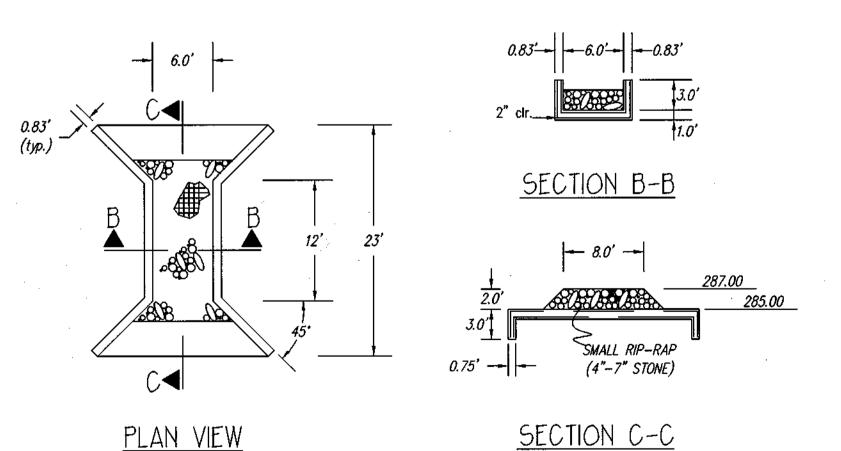
Permanent Vegetation – See standards for permanent vegetative cover, and permanent stabilization with sad. Existing trees or large shrubs may afford valuable protection if

2. Topsoiling - Covering with less erosive soil material. See standards for top soil.

3. Stone - Cover surface with crushed stone or gravel.

. Agriculture Handbook 346. Wind Erosion Forces in the United States and Their Use in Predicting Soil Loss

2. Agriculture Information Bulletin 354. How to Control Wind Erosion, USDA_ARS.



SEQUENCE OF CONSTRUCTION

1. OBTAIN PERMITS AND ARRANGE FOR PRE-CONSTRUCTION

MEETING WITH THE SEDIMENT CONTROL INSPECTOR (1 DAY).

3. INSTALL/MODIFY INFLOW PROTECTION NTO SEDIMENT TRAP. (2 DAYS)

STORMWATER MANAGEMENT FACILITY)(2DAYS).

PAVING AND PARKING LOT STRIPING (3DAYS).

ELECTION DISTRICT No. 6

EARTH DIKES. C1 WEEK).

4. MASS GRADE SITE (1 WEEKS).

5. INSTALL UTILITIES.(1MONTH).

2. INSTALL STABILIZED CONSTRUCTION ENTRANCE AND PERIMETER

6. COMPLETE GRADING. INSTALL CURB AND GUTTER. SIDEWALKS AND

7. WHEN PERMISSION HAS BEEN GRANTED BY THE SEDIMENT CONTROL

8. INSTALL LANDSCAPING. (2DAYS). INSTALL SURFACE COURSE

BASE PAVE. STABILIZE AREAS WITH GRASS SEED AND MULCH (2 WEEKS).

STABILIZED. REMOVE ALL REMAINING SEDIMENT CONTROLS AND STABILIZE ALL

INFORMATION FOR CONVERSION OF THE SEDIMENT BASIN TO THE PERMANENT

INSPECTOR AND ALL AREAS DRAINING TO THE SEDIMENT CONTROLS HAVE BEEN

REMAINING AREAS WITH GRASS SEED AND MULCH (SEE FO1-177 FOR ADDITIONAL

RELEASE STRUCTURE RS-3B

DETAIL 1 – EARTH DIKE LL 2:1 SLOPE OR FLATTER c-FLOW WIDTH <u>v,v,v,v,v,</u> PLAN VIEW STANDARD SYMBOL A-2 B-3 -- -/---2. Seed and cover with Erosion Control Matting or line with sod. i. 4" - 7" stone or recycled concrete equivalent pressed into 1. All temporary earth dikes shall have uninterrupted positive grade to an outlet. Spot elevations may be necessary for grades less than 1% 2. Runoff diverted from a disturbed area shall be conveyed to a sediment 3. Runoff diverted from an undisturbed area shall outlet directly into an 4. All trees, brush, stumps, obstructions, and other objectionable material shall be removed and disposed of so as not to interfere with the proper 5. The dike shall be excavated or shaped to line, grade and cross section as required to meet the criteria specified herein and be free of bank projections or other irregularities which will impede normal flow. 7. All earth removed and not needed for construction shall be placed so that It will not interfere with the functioning of the dike. 8. Inspection and maintenance must be provided periodically and after

CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 national drive – Suite 250 – Burtonsville office park

OWNER & PREPARED FOR: STONE LAKE CORPORATION C/O THE HOWARD RESEARCH & DEVELOPMENT CORP. THE ROUSE BUILDING 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044 ATTN.: JOE NECKER

TELE.: (410) 992-6084

SEDIMENT AND EROSION CONTROL DETAILS STONE LAKE LOTS B-1 thru B-39 A RESUBDIVISION OF PARCEL 'B'

SCALE ZONING G. L. W. FILE No. 99140 AS SHOWN TAX MAP - GRID SHÈET 47 - 7 P/O PARCEL 837 HOWARD COUNTY, MARYLAND